

## Ordering details Hand lamps

Type	Lamp power	Voltage	Lamp cap	Luminous flux	Dimensions			Weight	Order No.
					A	Ø B	Ø C		
HL43d LED6 460	6 W LED	85 - 264 V AC; 120 - 370 V DC	-	315 lm	640 mm	66 mm	43 mm	1.5 kg	<b>1 1700 000 107</b>
HL43d LED6 460	6 W LED	24 - 50 V AC/DC	-	315 lm	640 mm	66 mm	43 mm	1.5 kg	<b>1 1700 000 004</b>
HL43d LED6 460	6 W LED	12 - 24 V DC	-	315 lm	640 mm	66 mm	43 mm	1.5 kg	<b>1 1700 000 003</b>
HL43d LED6 460 TR	6 W LED	230 V / 24 V AC (isolating trans- former TR)	-	315 lm	640 mm	66 mm	43 mm	2.7 kg	<b>1 1700 000 223</b>
HL43d 6 383	1 x 6 W	230 V AC/DC	G5	215 lm	563 mm	66 mm	43 mm	1.4 kg	<b>1 1700 000 200</b>
HL43d 8 460	1 x 8 W	230 V AC/DC	G5	448 lm	640 mm	66 mm	43 mm	1.5 kg	<b>1 1700 000 201</b>
HL43d 6/2 383	2 x 6 W	230 V AC/DC	G5	430 lm	563 mm	66 mm	43 mm	1.5 kg	<b>1 1700 000 205</b>
HL43d 8/2 460	2 x 8 W	230 V AC/DC	G5	896 lm	640 mm	66 mm	43 mm	1.6 kg	<b>1 1700 000 206</b>
HL43d 13 690	1 x 13 W	230 V AC/DC	G5	949 lm	870 mm	66 mm	43 mm	1.7 kg	<b>1 1700 000 202</b>
HL43d 6 383	1 x 6 W	24 V AC/DC	G5	215 lm	563 mm	66 mm	43 mm	1.4 kg	<b>1 1700 000 000</b>
HL43d 8 460	1 x 8 W	24 V AC/DC	G5	448 lm	640 mm	66 mm	43 mm	1.5 kg	<b>1 1700 000 001</b>
HL43d 6/2 383	2 x 6 W	24 V AC/DC	G5	430 lm	563 mm	66 mm	43 mm	1.5 kg	<b>1 1700 000 005</b>
HL43d 8/2 460	2 x 8 W	24 V AC/DC	G5	896 lm	640 mm	66 mm	43 mm	1.6 kg	<b>1 1700 000 006</b>
HL43d 8 460 TR	1 x 8 W	230 V / 24 V AC (isolating trans- former TR)	G5	448 lm	640 mm	66 mm	43 mm	2.7 kg	<b>1 1700 000 221</b>
HL43d 8/2 460 TR	2 x 8 W	230 V / 24 V AC (isolating trans- former TR)	G5	896 lm	640 mm	66 mm	43 mm	2.7 kg	<b>1 1700 000 226</b>



## Ordering details Machine lamps

Type	Lamp power	Voltage	Lamp cap	Luminous flux	Dimensions			Weight	Order No.
					A	Ø B	Ø C		
ML43d LED6 460	6 W LED	85 - 264 V AC; 120 - 370 V DC	-	315 lm	581 mm	66 mm	43 mm	3.4 kg	<b>1 1700 000 113</b>
ML43d LED6 460	6 W LED	24 - 50 V AC/DC	-	315 lm	581 mm	66 mm	43 mm	1.5 kg	<b>1 1700 000 013</b>
ML43d LED6 460	6 W LED	12 - 24 V DC	-	315 lm	581 mm	66 mm	43 mm	1.5 kg	<b>1 1700 000 012</b>
ML60d LED22 1175	22 W LED	85 - 264 V AC; 120 - 370 V DC	-	2460 lm	1296 mm	82 mm	60 mm	3.9 kg	<b>1 1700 000 523</b>
ML60d LED15 870	15 W LED	85 - 264 V AC; 120 - 370 V DC	-	1296 lm	991 mm	82 mm	60 mm	3.8 kg	<b>1 1700 000 522</b>
ML60d LED25 1480	25 W LED	85 - 264 V AC; 120 - 370 V DC	-	3348 lm	1601 mm	82 mm	60 mm	4.0 kg	<b>1 1700 000 520</b>
ML60d LED36 1780	36 W LED	85 - 264 V AC; 120 - 370 V DC	-	5220 lm	1901 mm	82 mm	60 mm	4.1 kg	<b>1 1700 000 521</b>
ML43d 6 383	1 x 6 W	230 V AC/DC	G5	215 lm	504 mm	66 mm	43 mm	1.4 kg	<b>1 1700 000 210</b>
ML43d 8 460	1 x 8 W	230 V AC/DC	G5	448 lm	581 mm	66 mm	43 mm	1.5 kg	<b>1 1700 000 211</b>
ML43d 13 690	1 x 13 W	230 V AC/DC	G5	949 lm	811 mm	66 mm	43 mm	1.7 kg	<b>1 1700 000 212</b>
ML43d 6/2 383	2 x 6 W	230 V AC/DC	G5	430 lm	504 mm	66 mm	43 mm	1.5 kg	<b>1 1700 000 215</b>
ML43d 8/2 460	2 x 8 W	230 V AC/DC	G5	896 lm	581 mm	66 mm	43 mm	1.6 kg	<b>1 1700 000 216</b>
ML50d 13/2 690	2 x 13 W	230 V AC/DC	G13	1892 lm	811 mm	72 mm	60 mm	2.4 kg	<b>1 1700 000 217</b>
ML43d 6 383	1 x 6 W	24 V AC/DC	G5	215 lm	504 mm	66 mm	43 mm	1.4 kg	<b>1 1700 000 010</b>
ML43d 8 460	1 x 8 W	24 V AC/DC	G5	448 lm	581 mm	66 mm	43 mm	1.5 kg	<b>1 1700 000 011</b>
ML43d 6/2 383	2 x 6 W	24 V AC/DC	G5	430 lm	504 mm	66 mm	43 mm	1.5 kg	<b>1 1700 000 015</b>
ML43d 8/2 460	2 x 8 W	24 V AC/DC	G5	896 lm	581 mm	66 mm	43 mm	1.6 kg	<b>1 1700 000 016</b>
ML50d 13/2 690 TR	2 x 13 W	230 V / 24 V AC (isolating transformer TR)	G13	1898 lm	811 mm	72 mm	50 mm	2.4 kg	<b>1 1700 000 237</b>
ML60d 18 870	1 x 18 W	110 - 240 V AC/DC	G13	1296 lm	991 mm	72 mm	50 mm	2.4 kg	<b>1 1700 000 510</b>
ML 70d 18 522 (PL)	1 x 18 W TC-L	110 - 240 V AC/DC	2G11	1200 lm	643 mm	92 mm	70 mm	2.2 kg	<b>1 1700 000 517</b>
ML 70d 24 617 (PL)	1 x 24 W TC-L	110 - 240 V AC/DC	2G11	1800 lm	738 mm	92 mm	70 mm	2.8 kg	<b>1 1700 000 516</b>
ML60d 30 1175	1 x 30 W	110 - 240 V AC/DC	G13	2460 lm	1296 mm	72 mm	50 mm	2.4 kg	<b>1 1700 000 511</b>
ML 60d 36 1480	1 x 36 W	110 - 240 V AC/DC	G13	3348 lm	1601 mm	72 mm	50 mm	2.8 kg	<b>1 1700 000 512</b>
ML 70d 36 713 (PL)	1 x 36 W TC-L	110 - 240 V AC/DC	2G11	2900 lm	834 mm	92 mm	70 mm	3.4 kg	<b>1 1700 000 515</b>
ML 70d 55 833 (PL)	1 x 55 W TC-L	110 - 240 V AC/DC	2G11	4780 lm	954 mm	92 mm	70 mm	3.8 kg	<b>1 1700 000 514</b>
ML60d 18 918	1 x 18 W	24 - 50 V AC/DC	G13	1296 lm	1041 mm	72 mm	50 mm	2.4 kg	<b>1 1700 000 310</b>
ML70d 18 570 (PL)	1 x 18 W TC-L	24 - 50 V AC/DC	2G11	1200 lm	691 mm	92 mm	70 mm	2.2 kg	<b>1 1700 000 317</b>
ML70d 24 665 (PL)	1 x 24 W TC-L	24 - 50 V AC/DC	2G11	1800 lm	786 mm	92 mm	70 mm	2.8 kg	<b>1 1700 000 316</b>
ML 60d 30 1223	1 x 30 W	24 - 50 V AC/DC	G13	2460 lm	1346 mm	72 mm	50 mm	2.4 kg	<b>1 1700 000 311</b>
ML60d 36 1528	1 x 36 W	24 - 50 V AC/DC	G13	3348 lm	1651 mm	82 mm	60 mm	2.8 kg	<b>1 1700 000 312</b>
ML70d 36 761 (PL)	1 x 36 W TC-L	24 - 50 V AC/DC	2G11	2900 lm	882 mm	92 mm	70 mm	3.4 kg	<b>1 1700 000 315</b>
ML70d 55 881 (PL)	1 x 55 W TC-L	24 - 50 V AC/DC	2G11	4780 lm	1002 mm	92 mm	70 mm	3.8 kg	<b>1 1700 000 314</b>














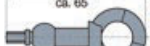








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## Accessories

HL 43 d / ML 43 d / ML 50/60/70 d / ML 43/60 LED

### Accessories

Type	Scope of delivery	Height in mm	Weight kg	Diameter mm	Order unit	Order No.
 Clamp	KFV 3	265	0.26	Ø 40	1	<b>1 1700 000 900</b>
 Clamp	KFV 4	280	0.26	Ø 50	1	<b>1 1700 000 901</b>
 Permanent magnet (adhesion 100 N) <sup>1)</sup>	PM 1	130	0.21	Ø 50	1	<b>1 1700 000 911</b>
 Permanent magnet (adhesion 500 N) <sup>1)</sup>	PM 2	190	0.68	Ø 40	1	<b>1 1700 000 915</b>
 Permanent magnet (adhesion 500 N) <sup>1)</sup>	PM 2	205	0.68	Ø 50	1	<b>1 1700 000 916</b>
 Permanent magnet (adhesion 500 N) <sup>1)</sup>	PM 2	215	0.68	Ø 60	1	<b>1 1700 000 918</b>
 Permanent magnet (adhesion 500 N) <sup>1)</sup>	PM 2	225	0.68	Ø 70	1	<b>1 1700 000 919</b>
 Permanent magnet (adhesion 500 N) <sup>1)</sup>	PM 2	235	0.68	Ø 80	1	<b>1 1700 000 920</b>
 Suspension hook with ball joint	KH 4	183	0.115	Ø 50	1	<b>1 1700 000 921</b>
 Suspension hook with ball joint	KH 6	195	0.120	Ø 60	1	<b>1 1700 000 923</b>
 Suspension hook with ball joint	KH 7	205	0.123	Ø 70	1	<b>1 1700 000 924</b>
 Suspension hook with ball joint	KH 8	215	0.127	Ø 80	1	<b>1 1700 000 925</b>
 Spring clip	FE 3	62	0.02	Ø 40	1	<b>1 1700 000 930</b>
 Spring clip	FE 4	78	0.02	Ø 50	1	<b>1 1700 000 931</b>
 Luminaire key 30-50 mm	SCH 2				1	<b>1 1700 000 940</b>
 Eye bolt with ball joint M5 stainless steel	RS 4	58	0.034		1	<b>1 1700 000 950</b>
 Plastic pipe clamp	CILC 63	115		Ø 63 - 71	1	<b>1 1700 000 960</b>
 Plastic pipe clamp	CILC 71	124		Ø 71 - 80	1	<b>1 1700 000 961</b>
 Plastic pipe clamp	CILC 80	136		Ø 80 - 90	1	<b>1 1700 000 962</b>
 Fixing clip	BS 70		0.012	Ø 70	1	<b>1 1700 000 951</b>

<sup>1)</sup> Note: dispatch only by sea freight or road freight!



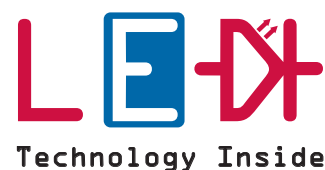
### Technical data

	HL 43 d / ML 43 d	ML 50/60/70 d	ML 43/60 LED
EC-Type Examination Certificate	BVS 14 ATEX E 106 X	BVS 14 ATEX E 106 X	BVS 14 ATEX E 106 X
IECEX Certificate of Conformity	IECEX BVS 14.0068X	IECEX BVS 14.0068X	IECEX BVS 14.0068X
Marking accd. to 94/9/EC	⊕ II 2 G Ex d IIC T5 Gb ⊕ II 2 D Ex tb IIIC T95 °C Db	⊕ II 2 G Ex d IIC T5 Gb ⊕ II 2 D Ex tb IIIC T95 °C Db	⊕ II 2 G Ex d IIC T5 Gb ⊕ II 2 D Ex tb IIIC T95 °C Db
Marking accd. to IECEx	Ex d IIC T5 Gb Ex t IIIC T95°C Db	Ex d IIC T5 Gb Ex t IIIC IP68 T95°C Db	Ex d IIC T5 Gb Ex t IIIC IP68 T95°C Db
Permissible ambient temperature	-20 °C up to +40 °C (PL-lamps) -20 °C up to +60 °C	-20 °C up to +60 °C	-20 °C up to +60 °C
Rated voltage	<sup>2)</sup>	<sup>2)</sup>	<sup>2)</sup>
Power	max. 13 W <sup>2)</sup>	max. 58 W <sup>2)</sup>	max. 36 W <sup>2)</sup>
Power factor cos	> 0.95	> 0.95	> 0.95
Circuit	EVG integrated	EVG integrated	EVG integrated
Protection class	I bzw. III	I	I
Standard cable length	5 m cable 3 x 1 mm <sup>2</sup> without plug <sup>1)</sup>		
Lamp / Illuminant	T5 <sup>2)</sup>	T8/TC-L <sup>2)</sup>	LED <sup>2)</sup>
Rated luminous flux	<sup>2)</sup>	<sup>2)</sup>	<sup>2)</sup>
Lamp cap	G5	2G11 (PL-lamps) / G13 (18 - 58 W)	—
Dimensions	<sup>2)</sup>	<sup>2)</sup>	<sup>2)</sup>
Weight 1	<sup>2)</sup>	<sup>2)</sup>	<sup>2)</sup>
Degree of protection accd. to EN 60529	IP68 <sup>3)</sup>	IP68 <sup>3)</sup>	IP68 <sup>3)</sup>
Protection tube	Polycarbonate	Polycarbonate	Polycarbonate

<sup>1)</sup> Plug on request, optional with eXLink® coupler

<sup>2)</sup> see ordering details

<sup>3)</sup> 2.5 m for 24 h

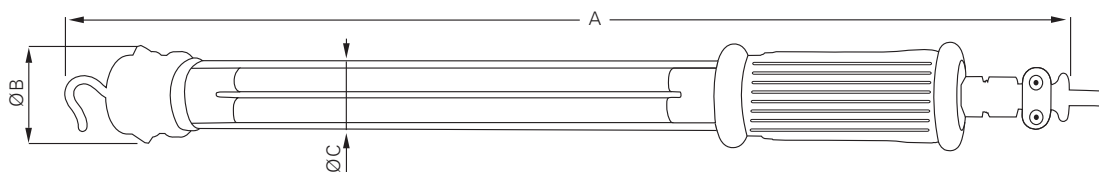


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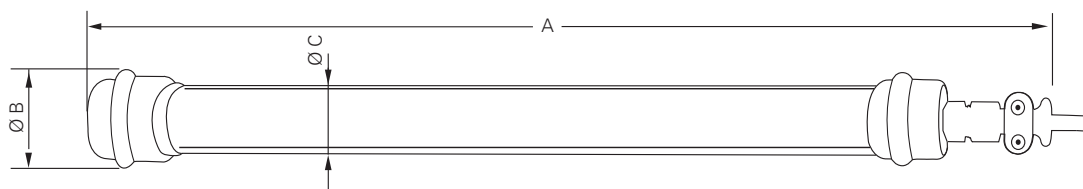
## Dimension drawing

HL 43 d / ML 43 d / ML 50/60/70 d / ML 43/60 LED

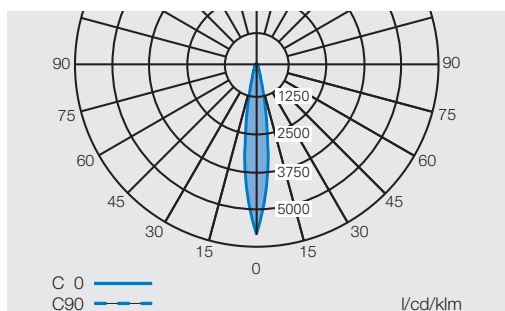
HL



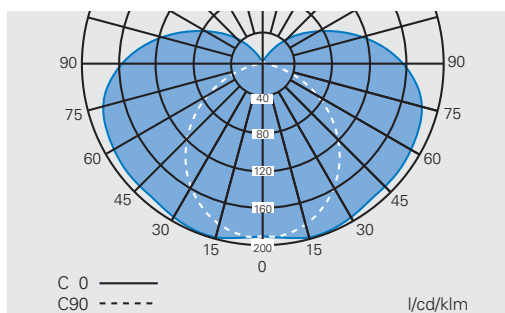
ML



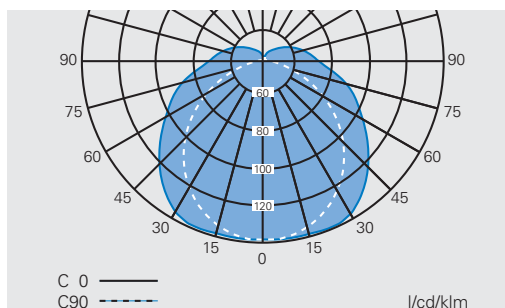
### Polar curve HL/ML ... LED



### Polar curve HL/ML single lamp

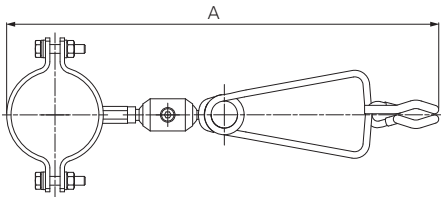


### Polar curve HL/ML (TC-L-Lamp) twin lamp

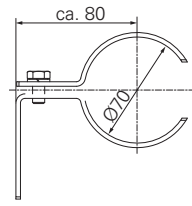


Dimensions in mm

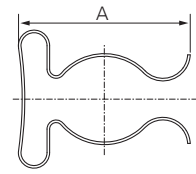
KFV...



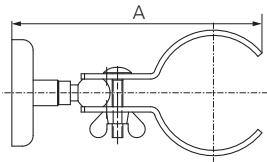
BS 70



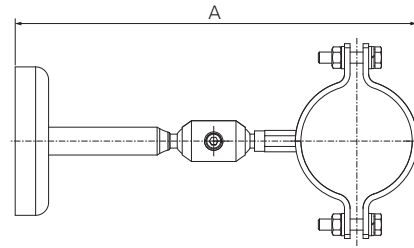
FE...



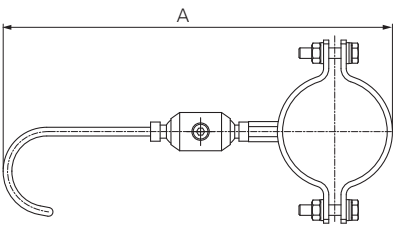
PM 1



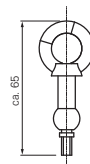
PM 2



KH...



RS4



CLIC

